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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

02/17/2004

SHAFFER & CULLBERTSON 913 GULF BREEZE PARKWAY SUITE 43 GULF BREEZE, FL 32561

EXA	AMINER	
PAK, SUNG H		
ART UNIT	PAPER NUMBER	
2974		

DATE MAILED: 02/17/2004

APPLICATI	N NO. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/052	27 01/17/2002	Henry F. Taylor		1239

TITLE OF INVENTION: OPTICAL DATA TRANSMISSION APPARATUS AND METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$0	\$665	05/17/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed n or after Dec. 12, 1980 may require payment f maintenance fees. It is patentee's responsibility t ensure timely payment f maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, t gether with applicable fee(s), t: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. B x 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fees will be mailed to the current correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590

02/17/2004

SHAFFER & CULLBERTSON 913 GULF BREEZE PARKWAY **SUITE 43 GULF BREEZE, FL 32561**

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name)	
(Signature)	
(Date)	

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/052,027	01/17/2002	Henry F. Taylor		1239

TITLE OF INVENTION: OPTICAL DATA TRANSMISSION APPARATUS AND METHOD

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nonprovisional	YES	\$665		\$0	\$665	05/17/2004
EXAMINER		ART UNIT		CLASS-SUBCLASS]	
PAK, SUNG H 287				385-003000		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). ☐ Change of correspondence address (or Change of Correspondence			names of	nting on the patent front page f up to 3 registered patent a R, alternatively, (2) the name	attorneys or 1 of a single	
Address form PTO/SB/122) attached.		firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent				
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.				or agents. If no name is liste		

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

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Please check the appropriate assignee category or categori 4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):	individual 🔾	corporation or other private group entity	government
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☐ Publication Fee	Payment by credit	card. Form PTO-	2038 is attached.	
Advance Order - # of Copies	☐ The Director is he Deposit Account Nur		by charge the required fee(s), or credit any (enclose an extra copy of this	overpayment, to form).
Director for Patents is requested to apply the Issue Fee and	Publication Fee (if any) or to re-apply	any previously p	paid issue fee to the application identified abo	ve.
(Authorized Signature)	(Date)			
NOTE; The Issue Fee and Publication Fee (if required other than the applicant; a registered attorney or ager interest as shown by the records of the United States Pate	nt; or the assignee or other party in ent and Trademark Office.			
This collection of information is required by 37 CFR obtain or retain a benefit by the public which is to file application. Confidentiality is governed by 35 U.S.C. 12 estimated to take 12 minutes to complete, including gat completed application form to the USPTO. Time will case. Any comments on the amount of time you re suggestions for reducing this burden, should be sent to Patent and Trademark Office, U.S. Department of 22313-1450. DO NOT SEND FEES OR COMPLET SEND TO: Commissioner for Patents, Alexandria, Virgi	nering, preparing, and submitting the vary depending upon the individual quire to complete this form and/or the Chief Information Officer, U.S. f Commerce, Alexandria, Virginia ED FORMS TO THIS ADDRESS. nia 22313-1450.			
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10/052,027		01/17/2002	Henry F. Taylor	1239	
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SHAFFER & C				PAK, S	UNG H
SUITE 43		XXWAI		ART UNIT	PAPER NUMBER
GULF BREEZE,	FL 325	61		2874	
				DATE MAILED: 02/17/200	14

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 131 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 131 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
	10/052,027	TAYLOR, HENRY I	= <u></u> _
Notice of Allowability	Examin r	Art Unit	
	Sung H. Pak	2874	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT OF THE OFFICE OR UPON PETITION BY THE OFFICE OF UPON PETITION BY THE OFFICE OFFIC	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS
1. A This communication is responsive to Amendment filed 11/0	<u>03/2003</u> .		
2. \boxtimes The allowed claim(s) is/are <u>2-8 and 10-22</u> .			
3. \boxtimes The drawings filed on <u>03 November 2003</u> are accepted by	the Examiner.		
4. Acknowledgment is made of a claim for foreign priority unall All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitinformal pattern APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Id ntifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail DFORMATION about the depose attached Examiner's comment regarding REQUIREMENT (compared to the proper notation of the paper No./Mail DFORMATION about the depose attached Examiner's comment regarding REQUIREMENT (compared to the proper notation of the paper No./Mail DFORMATION about the depose attached Examiner's comment regarding REQUIREMENT (compared to the priority documents and priority documents have a priority document and priority documents have a priority documents have a priority document and priority documents have a priority documents have a priority documents have a priority document and priority documents have a priority document and priority documents have a priority documents have a priority document and	been received. been received in Application No cuments have been received in this application. between received. Control this communication to file a reply of this application. Control this application. Control this application in the control this application. Control this communication to file a reply of this application. Control this application. Control this application to file a reply of this application. Control this application. Control this application to file a reply of this application. Control this application. Contr	complying with the red S AMENDMENT or Nation is deficient. 948) attached ffice action of the sign in the front (not the sign). nust be submitted. National states and submitted.	quirements OTICE OF
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal Pa 6. Interview Summary Paper No./Mail Date 8), 7. Examiner's Amendm 8. Examiner's Stateme 9. Other	(PTO-413), e nent/Comment nt of Reasons for Allo	owance

V.

Application/Control Number: 10/052,027

Art Unit: 2874

DETAILED ACTION

Applicant's amendment filed 11/03/2003 has been entered. All pending claims have been carefully reconsidered in view of the arguments set forth in the amendment. Claims 2-8, 10-22 are now pending.

Allowable Subject Matter

Claims 2-8, 10-22 are allowed.

The following is an examiner's statement of reasons for allowance:

An optical transmission system comprising, inter alia, a CW (continuous wave) laser source, a phase modulator, and an intensity modulator are known in the art. Ono et al reference (US 6,097,525) discloses an exemplary optical transmission system comprising a CW laser source, a phase modulator and an intensity modulator. The Ono device utilizes a phase modulator that accepts a binary control signal and outputs a binary phase modulated output signal.

On the other hand, the claimed device of the instant application utilizes a phase modulator that varies the signal in a quadratic manner with respect to time, such that the transmitted signal exhibits binary intensity modulated characteristic (0 or 1 relative power level), while the phase of that transmitted signal exhibits variation that is quadratic with respect to time. None of the prior art of record fairly teaches or suggests such limitations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Art Unit: 2874

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sung H. Pak whose telephone number is (571) 272-2353. The examiner can normally be reached on Monday - Thursday: 6:30am-5:00pm.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sung H. Pak Examiner Art Unit 2874

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AKM ENAYET ULLAH PRIMARY EXAMINER

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